




Français   
1 of 1

## Images

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(54) NICKEL BASED COMPOUND POSITIVE ELECTRODE MATERIAL  
PRIMARY CELL

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**Declaration under Rule 4.17**

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-- *with international search report*

(57) A nickel based compound positive electrode material primary cell, which uses a positive electrode active material comprising particles of a nickel oxyhydroxide based compound which have an eutectic structure formed with zinc, cobalt or both of these, have a surface coated with a higher order oxide of cobalt, and exhibit a half width of a diffraction peak having a diffraction angle near to 18 degree of 0.4 to 0.48 in its X-ray diffraction pattern. The primary cell combines improved capacity and excellent high rate characteristics. The above primary cell which further uses a negative electrode active material comprising a zinc based material containing 10 to 20 mass % of a zinc powder having a particle diameter of 75  $\mu\text{m}$  or less exhibits superior characteristics.



Français

1 of 1